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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,124	09/22/2003	Robert J. Tuttle		5410

7590 09/11/2006  
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MacGray  
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Cambridge, MA 02141

EXAMINER	
PATEL, RITA RAMESH	
ART UNIT	PAPER NUMBER
1746	

DATE MAILED: 09/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/665,124

Applicant(s)

TUTTLE ET AL.

Examiner

Rita R. Patel

Art Unit

1746

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☒ Certified copies of the priority documents have been received in Application No. 60/428,661.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>9/22/03</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Priority*

Acknowledgement has been made of applicant's claim for priority under 35 U.S.C. 119. This application claims priority from Provisional Application Serial No. 60/428,661 filed November 29, 2002.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7, 10-12, 14-27, 29-31, and 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blackburn (US Patent No. 3,891,123) and further in view of Pittendreigh et al. herein referred to as "Pittendreigh" (US Patent No. 3,192,744).

Blackburn discloses a dispensing sequence that is controlled by output signals from programmer 40 which are conducted by the connection 41 to a discriminating circuit whereby the control system utilizes programmer 60 to provide plural outputs (col. 2, lines 60-62; col. 3, lines 17-25). Thus, providing the apparatus of Blackburn with automatic dispersion of supplies to individual machines at individual times, in operation without dependence on each other (col. 3, lines 33-48). As seen in Figures 2 and 3,

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controller 60 and programmer 40 enable independent operation of a washing machine according to a desired washing sequence.

Blackburn fails to specify details of the washing units 27 attached in the distribution washing assembly. Pittendreigh, however, teaches a laundry apparatus for treating articles therein, embodying specific operating and washing disclosures. It would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the invention and features of Pittendreigh to Blackburn to teach specific washing machine details in such a commercial washing system taught by Blackburn. First of all, Pittendreigh discloses that disposed on the front of the housing 10 of the washing machine is a coin slot control mechanism generally indicated at 60 and an indicator panel 62 which includes control switches and indicator lights (col. 3, lines 18-23). Upon deposit of the appropriate amount of money the coin mechanism 60 can be operated to close contacts 60-1 which are held in closed position by latch 76, thus completing a circuit to energize the motors 90, 112, 22 and perform selected cleaning functions. Therefore, by utilizing such payment processing features in Blackburn, the control signals and programmer of Blackburn may be used in direct operation with the payment processor. In Pittendreigh, control panel 62B allows the user to input washing controls, as well as view washing progression (Fig. 3). Moreover, a gang controller is taught by Blackburn for achieving monitoring of the individual washing machines. Blackburn discloses dispensing supply through the control of solenoid 29, which is effected by an electrical control circuit connected with a machine programmer 40 (col. 2,

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lines 50-52). Such a control system allows for group control of the plurality of washing machines 27.

Blackburn further discloses pump 16 for maintaining a liquid level in head tank 19 to thereby control the volume of supply held in the respective dispensing tanks 24, and finally dispense liquids to the individual washing machines, in operation with valve 25 and solenoid 29 (col. 2, lines 43-52). Solenoid sensors 29 and float actuated switch 21 read on components of applicant's claim for a system of flow sensors for monitoring the flow continuity of said fluid distribution system. The electrically driven pump 16 is actuated by float actuated switch 21 in the head tank 19 (col. 2, lines 24-26); thus switch 21 reads on applicant's claim for a first sensor in said distribution conduit downstream of said pump. Respective solenoid sensors 29 read on applicant's claim for a second flow sensor which is connected downstream a valve, specifically valve 25, for generating a second signal indicative of the flow of work therein. Blackburn discloses one set of distribution means, including a pump, a tank, a manifold, and a valve, however, it would have been obvious to one of ordinary skill in the art at the time of the invention to duplicate said distribution means for providing multiple means for delivering liquid solutions. It is well known in the art of cleaning for such washing machines that several different solutions such as liquid detergent, bleach, and/or fabric softener may be desirable for distribution into the washing machine at various point during the washing cycle. Therefore, by providing multiple distribution assemblies, multiple solutions may be incorporated into the washing functions to achieve desired cleaning.

Claims 8-9, 28, and 32-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Blackburn and Pittendreigh as applied to claims above, and further in view of Bruntz et al. herein referred to as "Bruntz" (US Patent No. 5,978,995).

Blackburn and Pittendreigh teach the claimed invention, except fail to teach specific temperature means for monitoring the temperature of the fluid therein the washing machines. However, it is well known in the art of such washing machines to optimize the temperature of the water therein, to optimally achieve best cleaning performances from the detergent and provide adequate and efficient water cleaning temperature depending on the type of load being washing therein, thus enhancing washing means. It would have been obvious to one having ordinary skill in the art at the time the invention was made to optimize and maintain specific temperatures therein since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Also, Bruntz teaches a temperature control system for use in washing machine to control the temperature of wash and rinse water therein. The invention includes a temperature selection switch which operates the water valves for controlling the temperature of water entering the washing machine. Thus it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate said feature of Bruntz to Blackburn and Pittendreigh to allow user to select a temperature control and optimize temperature of the liquid washing solution therein to achieve aforementioned desired cleaning means.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Blackburn and Pittendreigh as applied to claims above, and further in view of Yamamoto et al. herein referred to as "Yamamoto" (US Patent No. 3,362,515). Blackburn and Pittendreigh teach the claimed invention, except fail to state disclose means for the payment processor to accept a stored-value payment card as payment. Instead Blackburn discloses means to accept coins for payment, however, one skilled in the art at the time of the invention may readily envisage card means for payment because it may be faster, more convenient and less complicated than requiring the user to obtain coins for operation. Card means are a known equivalence in the art of providing the same operational results for the user, but with aforementioned user benefits. It would be obvious to one of ordinary skill in the art at the time of the invention to use substitution of known equivalent structures. *In re Fout* 213 USPQ 532 (CCPA 1982); *In re Susi* 169 USPQ 423 (CCPA 1971); *In re Siebentritt* 152 USPQ 618 (CCPA 1967); *In re Ruff* 118 USPQ 343 (CCPA 1958). Moreover, Yamamoto teaches a card controlled apparatus for an apparatus wherein various kinds of services are rendered, such as washing or drying clothes (col. 1, lines 45-46). Such a card controlled feature may readily be incorporated into that of Blackburn and Pittendreigh for achieving said expected results.

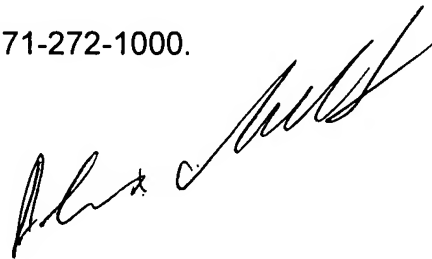
***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita R. Patel whose telephone number is (571) 272-8701. The examiner can normally be reached on M-F: 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RRP



ALEXANDER MARKOFF  
PRIMARY EXAMINER